

ABB BALDOR RELIANCE III

Customer information packet

VXT3016T-5

1HP, 1170RPM, 3PH, 60HZ, 145TC, 0526M, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	145TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CCSA US CSA EEV NEMA PREMIUM NEMA_PREMIUM UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	3
Current @ Voltage	1.340 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T4

Part Detail

Revision	A
Type	AC
Mech. spec.	05E6082
Base	
Status	PRD/A
Elec. spec.	05WGX574
Layout	05LYE6082
Eff. date	11-27-2024
CD Diagram	CD0006
Poles	06
Leads	3#18
Proprietary	False
Created date	10-28-2024

Heater Indicator	No Heater
High Voltage Full Load Amps	1.3 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0526M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	12.54 IN
Power Factor	67
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1170 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP4224L									
CAT.NO.	VXT3016T-5						I.P.	54	
SPEC.	05E6082X574G1						ENCL	TEFC	
FRAME	145TC	H.P.		1		T. CODE		T4	
VOLTS	575			P.F.		67			
F.L. AMPS	1.34			RATING		40C AMB-CONT			
R.P.M.	1170								
HZ.	60		PH.		3		CLASS		F
SER.F.	1.00		DES.		B		SL HZ		1.5
NEMA NOM. EFF.	82.5			WK2		0.189			
DE	6205		ODE		6203				
MAG. CUR.	.83								
INV TYPE	PWM	CHP	60		TO		90		INV TEMP CODE
CT	3	TO	60		VT		3	TO	60
CC	010A		SN						

AC Induction Motor Performance Data

Record # 47146

Typical performance - not guaranteed values

Winding: 05WGX240-R009			Type: 0526M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		1	Full Load Torque		4.53 LB-FT		
Volts		208-230/460	Start Configuration		direct on line		
Full Load Amps		3.4/1.7	Breakdown Torque		14.6 LB-FT		
R.P.M.		1160	Pull-up Torque		11.1 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		12 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		10.4 A
Service Factor (S.F.)		1.15	No-load Current		1.16 A		
NEMA Nom. Eff.		82.5	Power Factor	66	Line-line Res. @ 25°C		17.6 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		35°C
S.F. Amps					Temp. Rise @ S.F. Load		41°C
					Rotor inertia		0.155 LB-FT2

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	27	45	57	66	72	75	70
Efficiency	70.2	80	82.7	83.1	81.8	80	82.3
Speed	1192	1182	1171	1160	1146	1131	1152
Line amperes	1.19	1.31	1.49	1.72	1.99	2.33	1.88

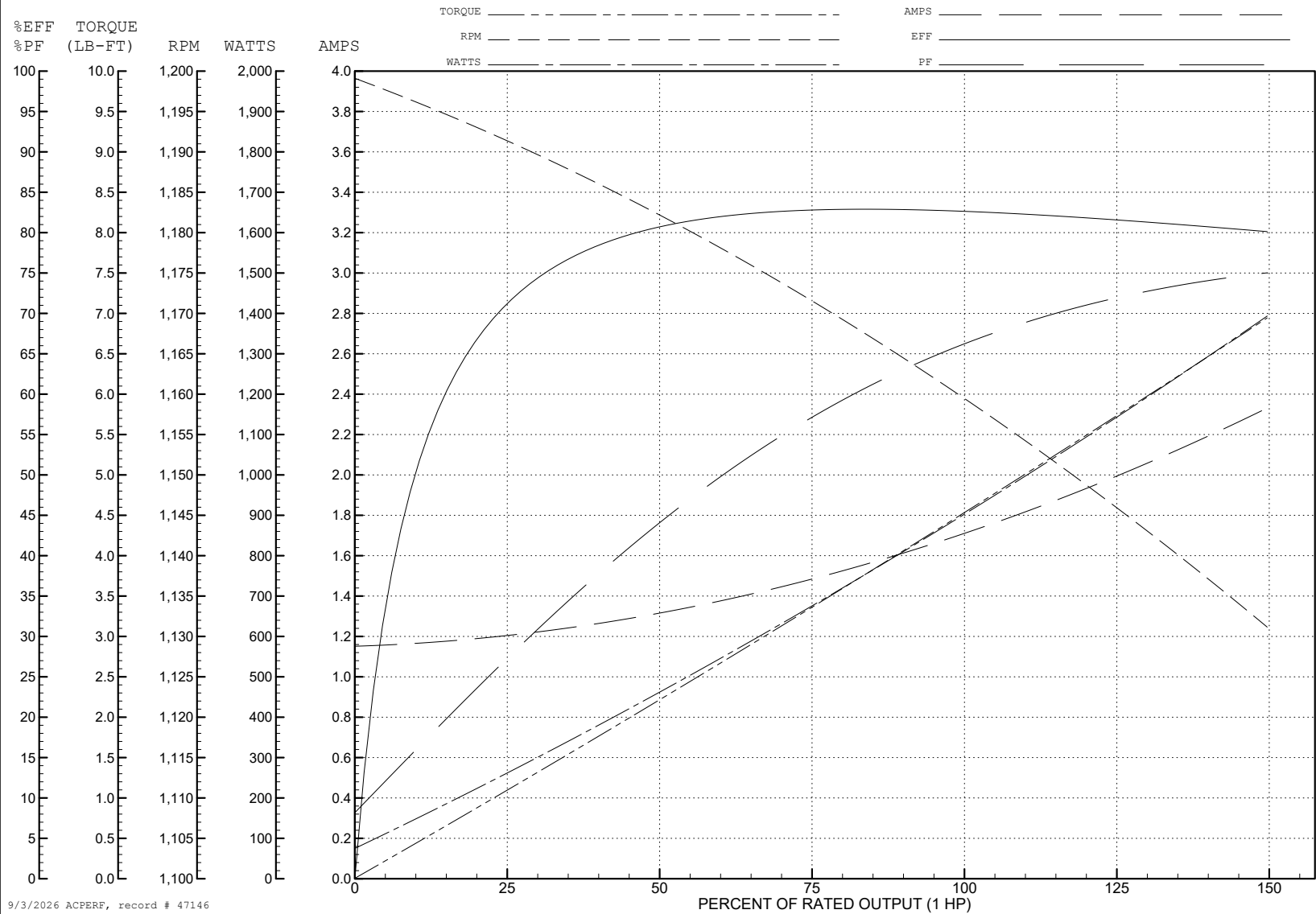
ABB Motors and Mechanical Inc.

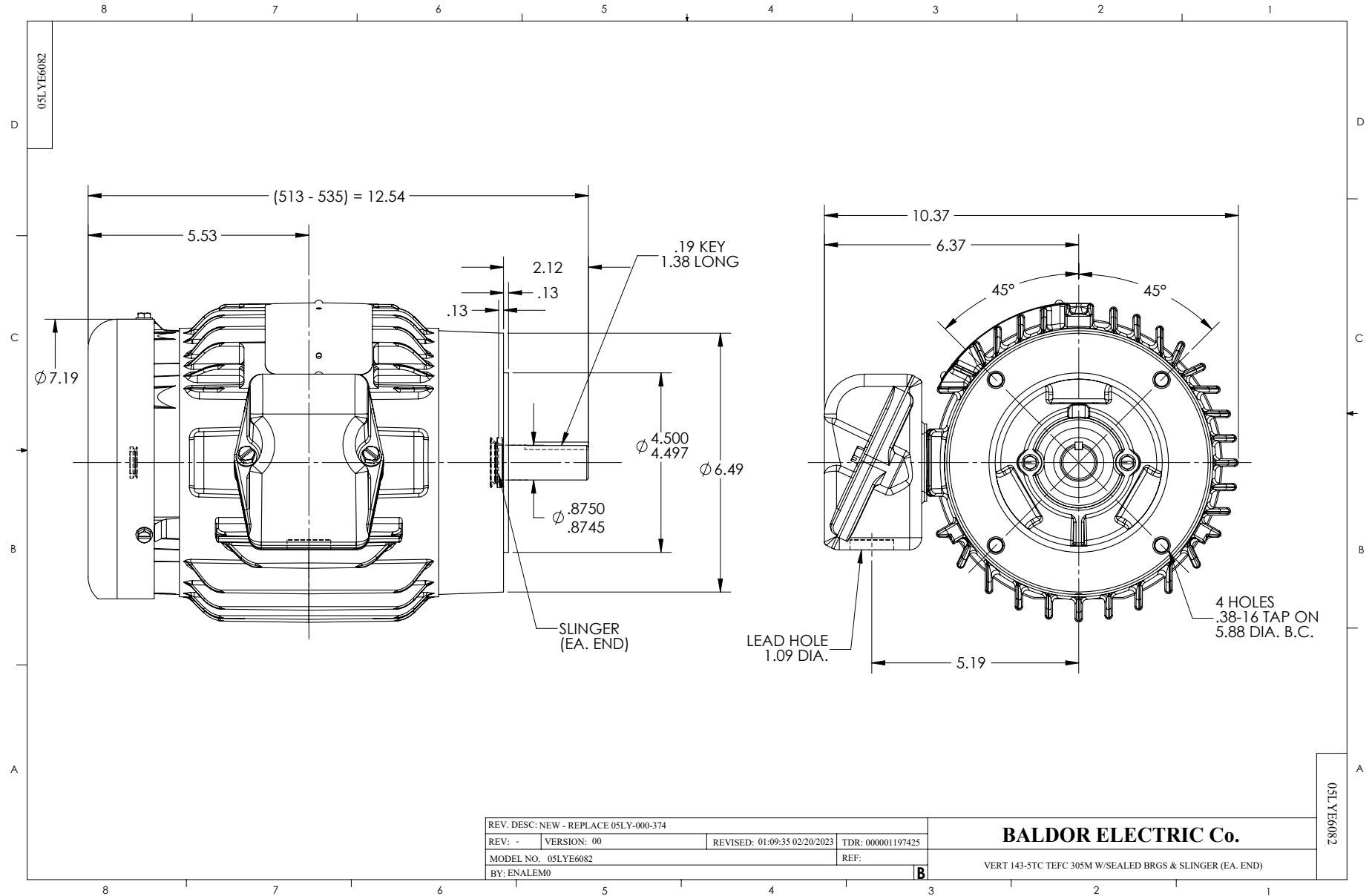
WINDING # 05WGX240

Typical performance - not guaranteed values.

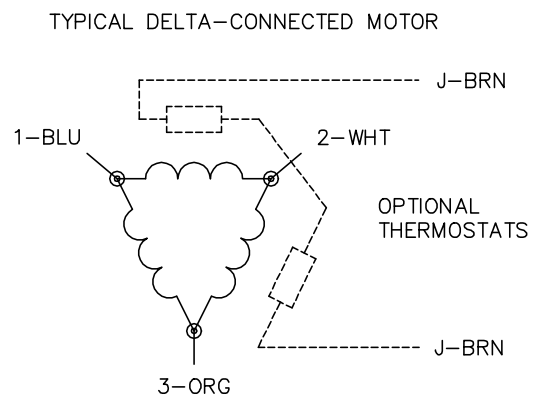
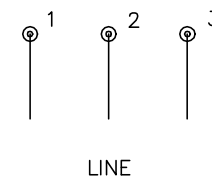
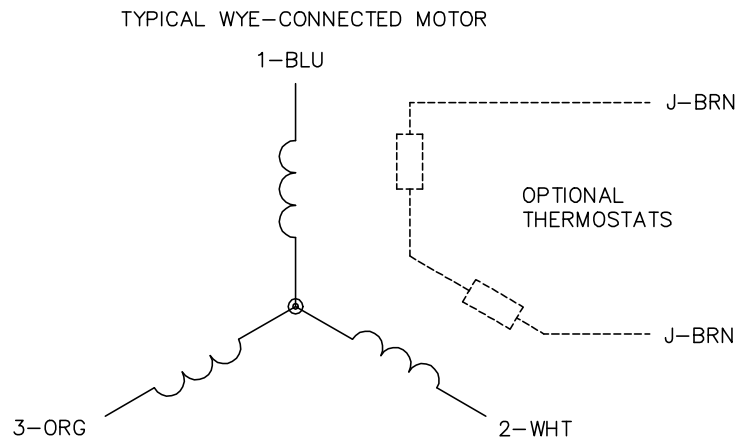
1 HP 3 PH 60 HZ 1160 RPM 460 V 0526M

TORQUES (LB-FT): PO=14.6 PU=11.1 LR=12 LRA=10.4





CD0006


NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10:24:49 02/19/2019

BY: ENBRIRO

MTL: —


BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1